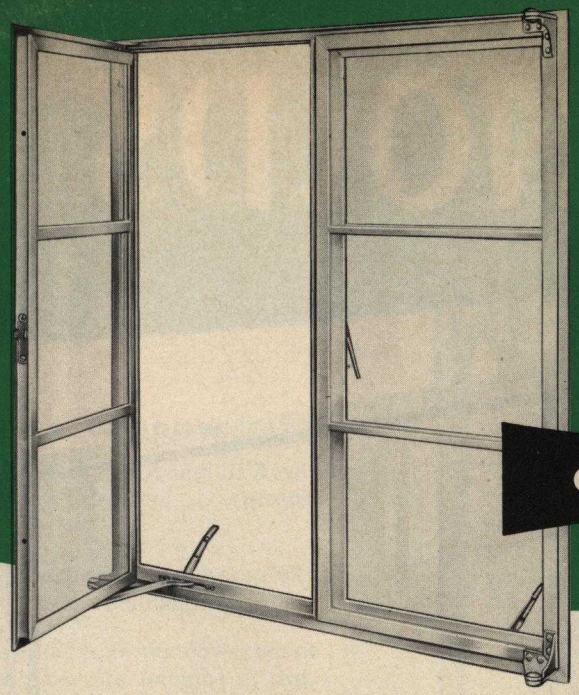
A. I. A. FILE No. 16-E

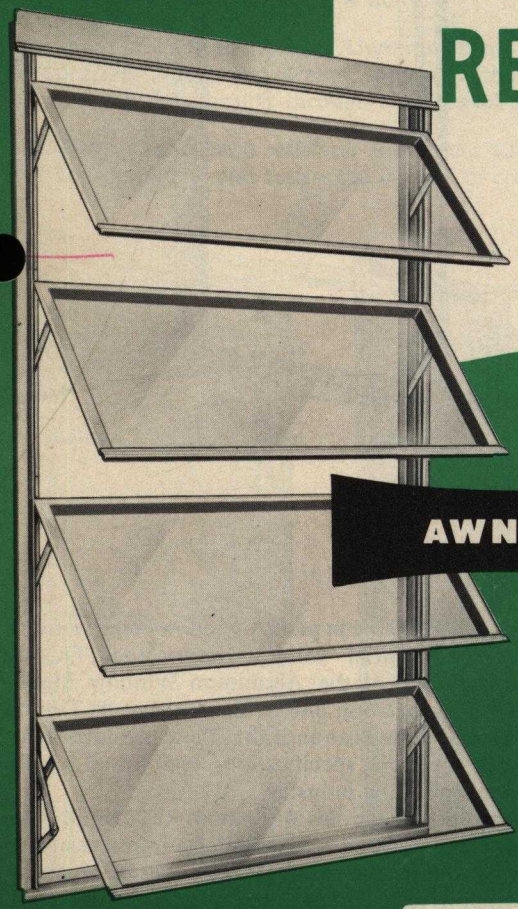
RECEIVED
DEC 21 1953



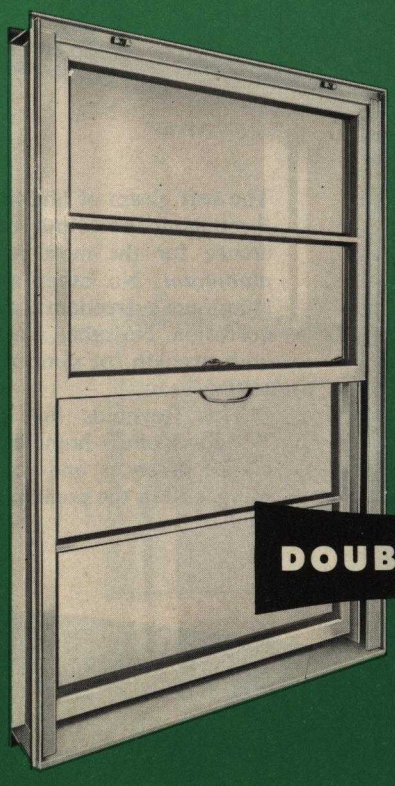
CASEMENT

REYNOLDS ALUMINUM
RESIDENTIAL WINDOWS

ALL THE ADVANTAGES OF ALUMINUM IN RESIDENTIAL WINDOWS OF SUPERIOR DESIGN



AWNING



DOUBLE-HUNG

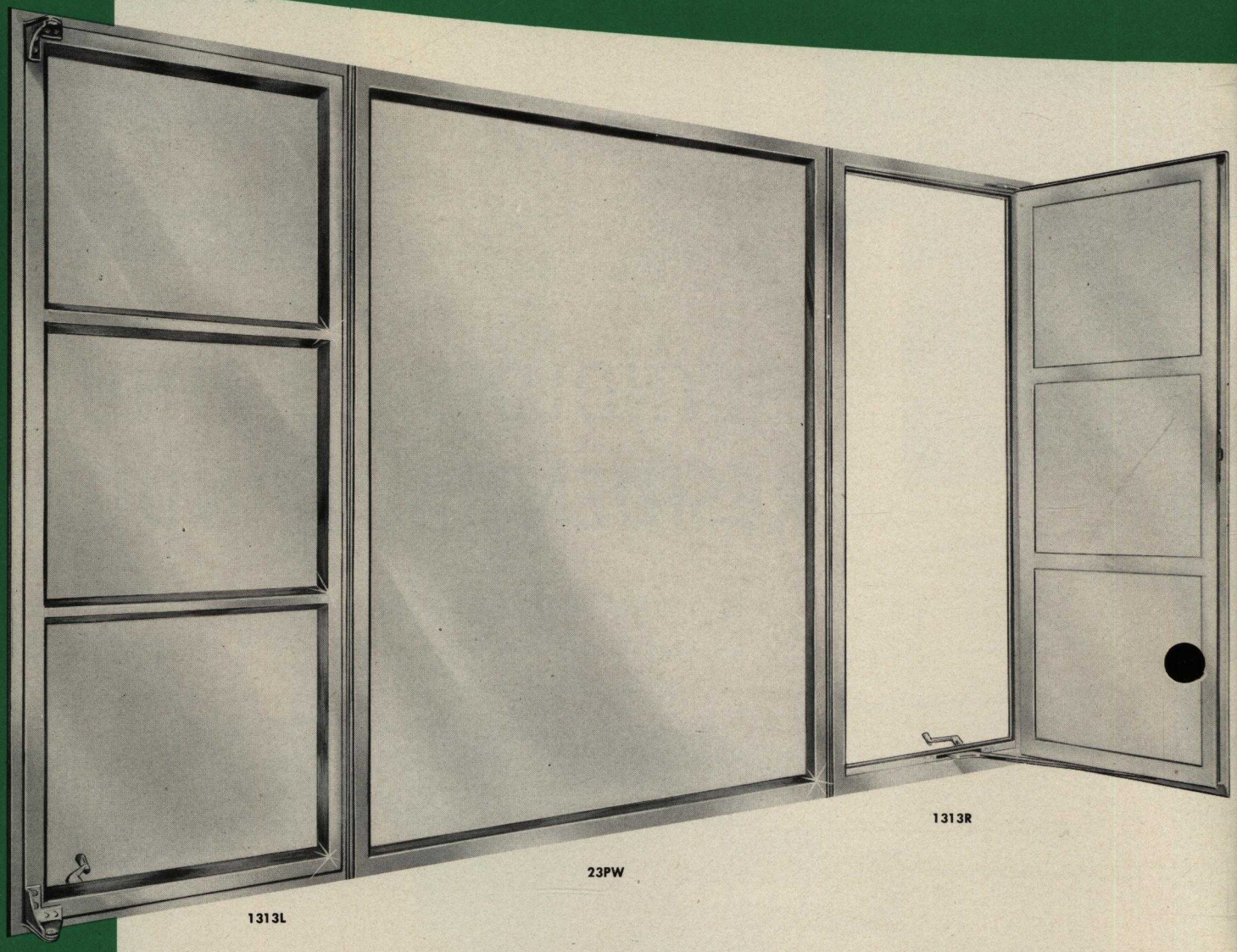
REYNOLDS ALUMINUM

QUALITY APPROVED
(TYPE)

A.W.M.A. Quality Specifications—Materials, Construction, Strength of sections and Air infiltration requirements—confirmed by PITTSBURGH TESTING LABORATORY.
MEMBER—ALUMINUM WINDOW MANUFACTURERS ASSOCIATION

Copyright 1952, Reynolds Metals Company

REYNOLDS ALUM



The soft gleam of aluminum windows in residences throughout the country is proof of a growing preference for the most modern building material—*aluminum*. No other material offers *at low cost* aluminum's freedom from rust and resistance to corrosion. No other material combines light weight with strength for slender window members, for long lasting beauty.

This Reynolds line of Residential Aluminum Windows offers home builders and owners a wide choice of styles and sizes—in the familiar double-hung, and in the popular casement and awning windows, each available in picture window combinations.

These residential windows carry the "Quality Approved" seal of the Aluminum Window Manufacturers Association and of the Pittsburgh Testing Laboratory, your assurance that these products comply with the rigid specifications established by the aluminum window industry.

In addition, Reynolds Aluminum Residential Windows are guaranteed against defects in material and workmanship to the extent of replacing or repairing the window, or refunding the purchase price upon examination by Reynolds.

NUM WINDOWS

EVERYTHING YOU WANT IN A WINDOW

- Handsome, functional lines. The lightweight strength of Reynolds aluminum permits slender window members . . . greater areas of light and vision.

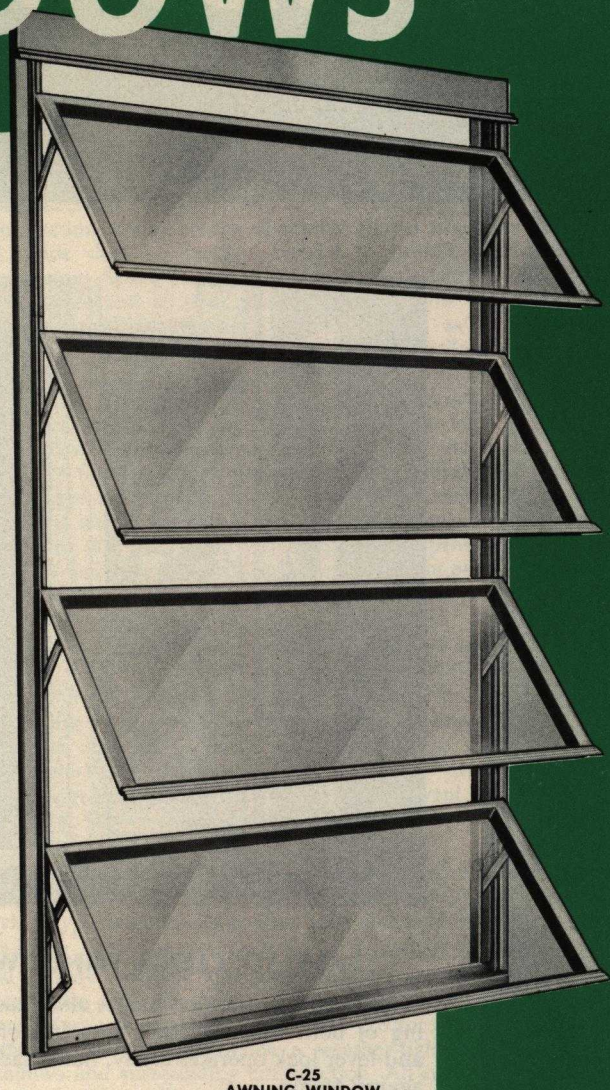
- Attractive satin-grey appearance. Aluminum blends beautifully with interior finishes, takes on hue of its surroundings.

- Non-staining, rustproof. Reynolds Aluminum Windows cannot cause ugly stains on outer surfaces. They are immune to rust.

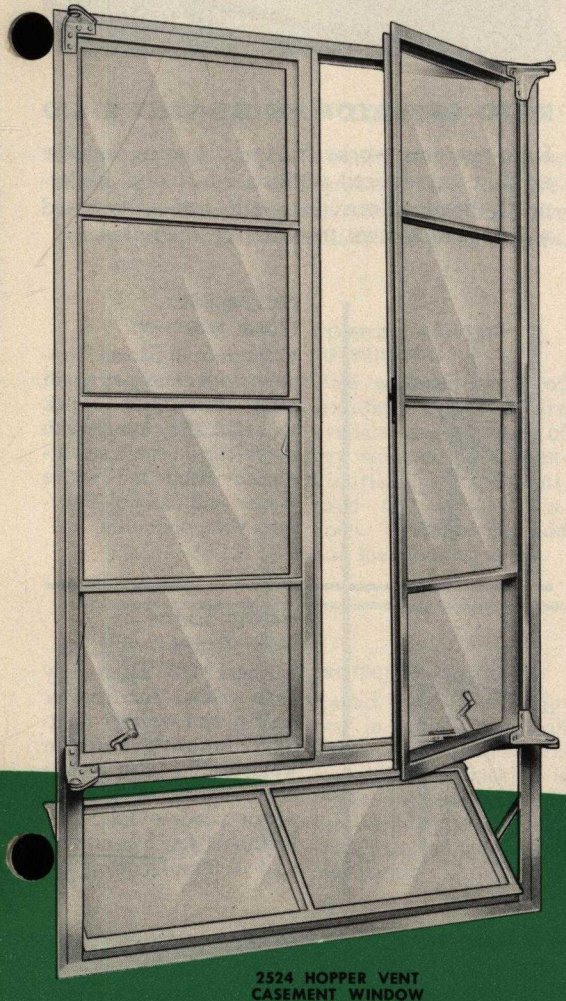
- No painting—ever. Because it cannot rust, aluminum maintains itself without protective painting at any time. (Painting contractors estimate that window painting accounts for a substantial part of the cost of painting a house.)

- Warp-free and split-proof. Aluminum is not subject to common wear hazards such as warping, splitting and swelling. These windows keep their beauty through all types of weather.

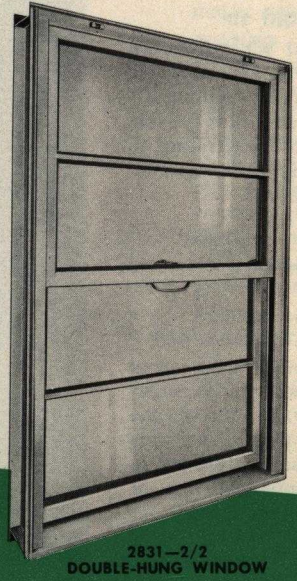
- Fire and corrosion resistant. Aluminum adds to the protection of your home . . . also resists the inroads of corrosive atmosphere.



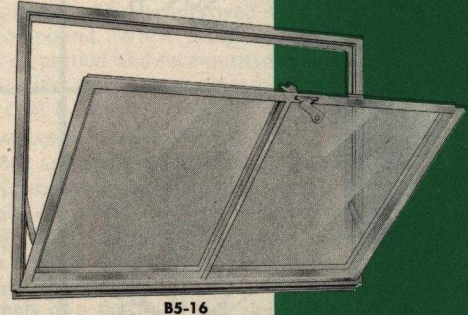
C-25
AWNING WINDOW



2524 HOPPER VENT
CASEMENT WINDOW



2831—2/2
DOUBLE-HUNG WINDOW



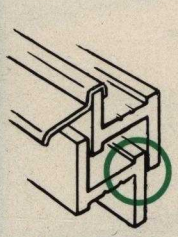
B5-16
BASEMENT WINDOW

REYNOLDS ALUMINUM WINDOWS

SUPERIOR DESIGN • MAXIMUM BEAUTY • MINIMUM MAINTENANCE

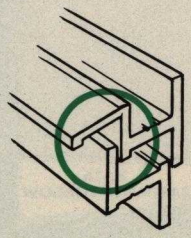
EASY TO CLEAN WINDOWS

Wide-opening extension hinges allow easy cleaning of both sides of glass from indoors. Cam-and-lever lock operates easily, holds sash tightly against frame.



WATER-TIGHT LIP

A special water-tight lip directs wind-driven water to prepared "weep holes". This water drains outside instead of penetrating to the interior. Note double-contact frame.

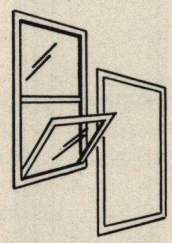


BUILT-IN TRANSOM DRIP

A continuous drip rail at the transom bar is incorporated as part of the window frame, just one more premium feature in this economical line of aluminum windows.

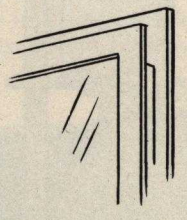
ROTO-OPERATOR HOLDS VENT RIGID

Roto-operator works freely . . . holds window rigid in any desired position . . . works underneath fixed screen or storm sash. Oversized worm gear assures trouble-free operation.



CUSTOM-BUILT STORM WINDOWS

Custom-built storm windows with double-strength glass throughout. Quick to install, they attach with quick-clips. They are attached from the inside frame and do not interfere with operation.



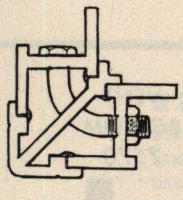
WELDED JOINTS— SATIN FINISH

Corners are electrically flash-welded for greater rigidity and weather-tightness. Smooth, uniform welded joints also add to clean styling of this superior window. Exclusive Reynolds finish protected by baked-on lacquer.

CASEMENT
FIXED and PICTURE

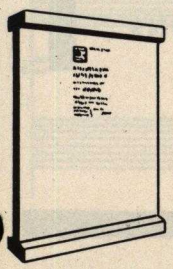
QUICK-CLIP SCREENS

Standard size screens require no fitting, no marking for storage. Window frames are predrilled for attaching simple clips. Standard size inside storm sash apply easily using same holes.



COMPLETE RANGE OF MULLIONS

The widest range of standard mullions are available for all types of bay windows, for all combinations of casement, fixed and picture windows. Load-bearing and non load-bearing types.



PROTECTIVE PACKAGING

Each 2 windows are shipped in special cover-all corrugated container. Handling and stacking is easier, windows arrive on the job completely protected, stay in carton until installation.

SPECIFICATIONS

GENERAL Windows shall be Residential Aluminum Casements as manufactured by the Reynolds Metals Company and shall conform to the Aluminum Window Manufacturers Association specification C-A1 (or with design and/or engineering changes which will provide the user with equal or superior operation, appearance and service). Sizes and types shall be as shown on the general plans.

MATERIAL Sections shall be especially designed aluminum extruded shapes of 63S-T5 alloy having an ultimate tensile strength of not less than 22,000 psi, and shall be not less than 1″ in depth and ⅞″ in cross section. Where solid sections are used the minimum thickness shall be .125″. Where tubular sections are used the minimum thickness shall be .062″.

CONSTRUCTION Corners shall be of electrically flash-welded construction except where dissimilar shapes are joined and all welds shall be factory dressed to permit satisfactory weathering. Muntin bars shall be firmly attached at their cross joints and to their abutting sash section. Continuous double-contact weathering shall be provided as an integral part of the sections between frame and ventilator (except hopper vent). All surfaces to be glazed shall have putty retaining lips of not less than ⅛″. A continuous drip rail shall be an integral part of the transom bar. Drip caps shall be provided at the head of all openings where the ventilators extend to the full height of the opening. Ventilators shall be side-hinged to open out on truss-type, self-cleaning extension hinges of aluminum. All hinges shall be securely fastened to the frame and ventilator by riveting, shall be provided with a stainless steel sleeve bushing about a 5/16″ pivot pin, and shall have washers of a non-corrosive type. The ventilator around its entire perimeter shall be provided with a ⅛″ lip where it contacts the frame on the interior side to insure against water seepage. The frame member under each ventilator shall contain two weep holes to allow for water run off.

HARDWARE Each residential aluminum casement shall be equipped complete with die cast, rotary type underscreen operator(s) and die cast fastener handle(s) of aluminum, or of a non-corrosive material. Keepers, vent guides and necessary screws for attachment shall be of aluminum or non-magnetic stainless steel.

FINISH All windows shall have a "Satinized" finish and a protective coating of a lime-resistant, water-white, methacrylate-type lacquer, dip applied after chemical cleaning.

ERECTION All windows shall be set by others level, plumb and square without springing, forcing, or distortion, in accordance with the manufacturer's standard recommendations. Mastic provided by the window erector shall be used in sufficient quantity to provide a weather-tight seal between windows and surrounding construction. All such joints must be thoroughly caulked. In no case use non-compatible material with aluminum. Where unprotected aluminum comes into contact with lime-content masonry, the surfaces shall be coated by others with an approved type lacquer or a bitumastic paint.

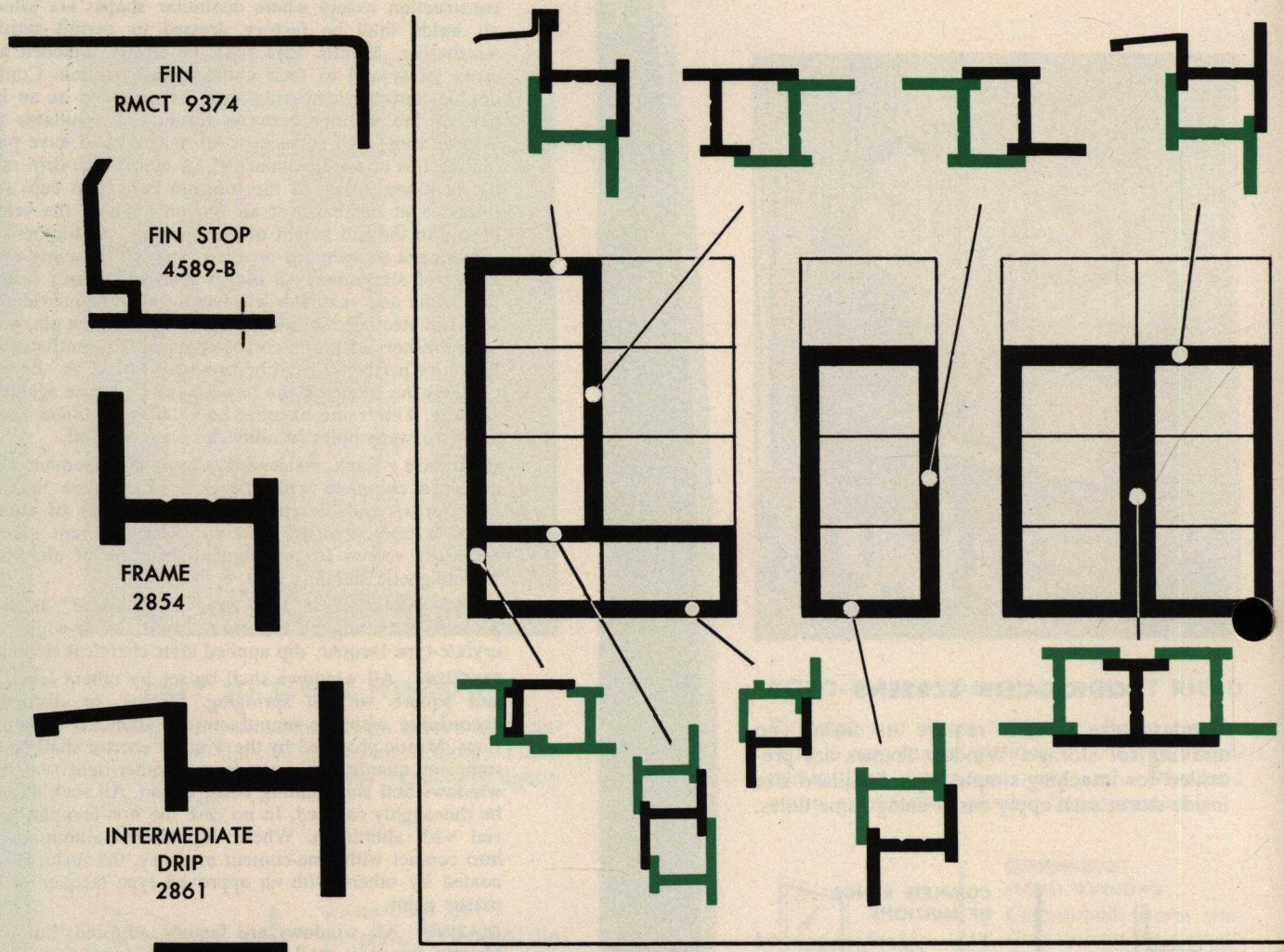
GLAZING All windows are factory adjusted; but prior to glazing, windows shall be inspected to insure that ventilators correctly seat and weather as per manufacturer's recommendations. If found incorrect, windows should be adjusted prior to the application of glass and compound. (This work not by Reynolds Metals Company.) All windows shall be putty-glazed from the outside with an approved type aluminum window glazing compound. When using compound, glass shall be carefully bed-puttied and face-puttied in a neat manner being secured with spring type clips provided by the glazing contractor (not R.M.C.).

SCREENS AND STORM SASH Screens of the flat, fixed type shall be easily applied to, and removed from, all openings from the inside. Screen frames shall be tubular aluminum sections .75″ in depth and .438″ in thickness, securely joined at corners by force-fit inserts with a minimum thickness of .091″. Screen cloth shall be aluminum of 18-14 mesh. Screens shall be furnished by the manufacturer (at extra cost).

Storm sash panels of a flat fixed type shall be easily applied to, and removed from, the inside and shall cover entire window area. Glass shall be bedded in a neoprene or vinyl-type extrusion, which shall extend around the storm sash frame and provide a complete coverage between storm sash and window frame. Storm sash frame shall be aluminum with a minimum thickness of .062″. Storm sash shall be furnished by the manufacturer, and shall be provided with ventilators when specified (at extra cost).

REYNOLDS ALUMINUM WINDOWS

CROSS SECTION DETAILS



FIN
RMCT 9374

FIN STOP
4589-B

FRAME
2854

INTERMEDIATE
DRIP
2861

MUNTIN
2857

DOUBLE
MEETING RAIL
2855

VENT
BOTTOM
7570

HOPPER VENT SECTIONS

"XW" windows only.
Same sight line
as solid section.

HORIZONTAL
MEETING RAIL
7569

APPLIED
WEATHERING
STRIP
7568

SINGLE
MEETING RAIL
2862

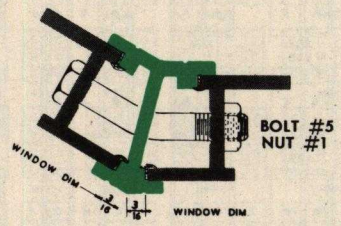
TUBULAR VENT
7083-A

CASEMENT
FIXED and PICTURE

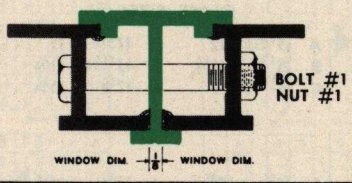
Reynolds standard mullions permit any desired vertical or horizontal combination of fixed and casement types

STANDARD MULLIONS

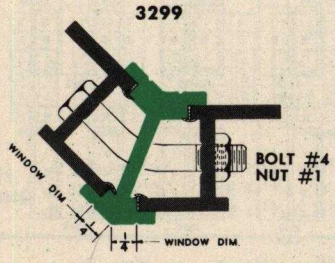
30° MULLION
3300



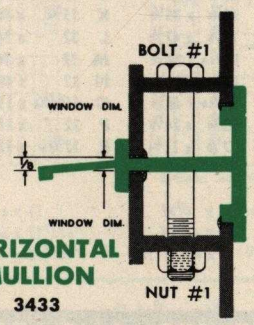
STRAIGHT MULLION
3229



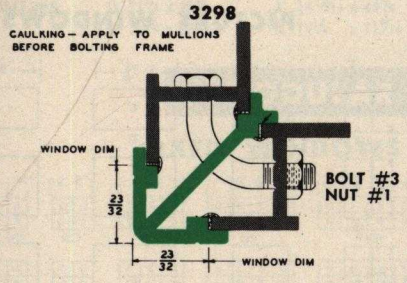
45° MULLION
3299



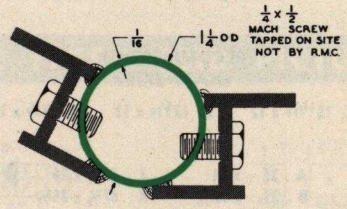
HORIZONTAL MULLION
3433



90° MULLION
3298



TUBULAR MULLION
Non load-bearing type



MULLION NOTES

Whenever possible head of mullion or fin bolt should be located inside fixed window. Where mullion or fin bolt protrude into light, glass should be cut accordingly.

When installing mullions, be sure bolt holes are in correct alignment with window frame installation holes.

Mullions should be bolted to adjacent windows before installation in the wall.

Adjacent fastener handles not to be used on 90° mullion. Not desirable on 45° and 30° mullions. Adjacent roto-operator handles not desirable on 90° mullions.

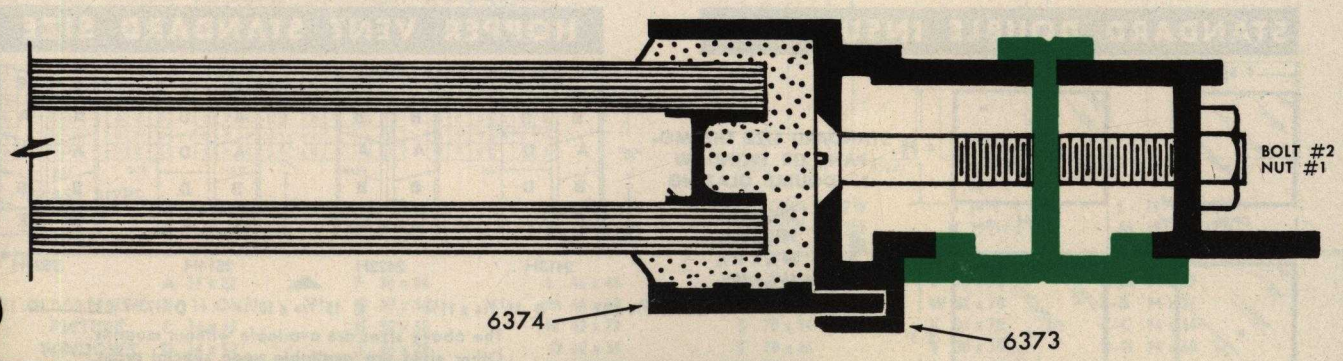
LOAD-BEARING PIPE MULLIONS

LENGTH (IN FT.)	No. 40 PIPE (IN LBS.)	No. 80 PIPE (IN LBS.)
2	30,100	39,600
3	28,250	37,100
4	26,450	34,700
5	24,600	32,200
6	22,800	29,750
7	21,000	27,250
8	19,120	24,750
9	17,300	22,300
10	15,480	19,850
11	13,650	17,350
12	11,820	14,900

These are available in the form of No. 40 pipe (OD 2.875", ID 2.469") and No. 80 pipe (OD 2.875", ID 2.323"). Complete with head and sill castings. Allowable loads are given in the chart above. Safety factor—2.

REYNOLDS DOUBLE INSULATING PICTURE WINDOW

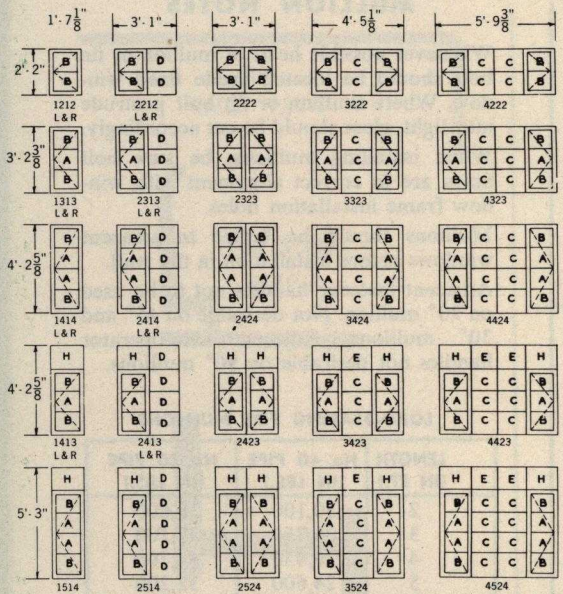
Picture windows suitable for 1" standard Thermopane and Twindow. Frame is supplied in knock-down form for easy field assembly. Interior glazing. (Standard window sections permit use of ½" type double-insulating glass.)



REYNOLDS ALUMINUM WINDOWS

STANDARD SIZE CASEMENT WINDOWS

WITH MUNTINS

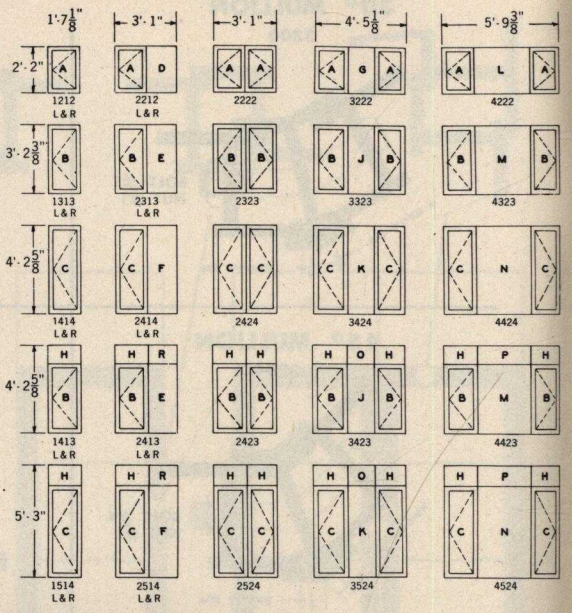


RECOMMENDED GLASS SIZES

A	15 13/16 x 12	D	17 5/16 x 12
B	15 13/16 x 11 1/4	E	15 11/16 x 11 7/8
C	15 11/16 x 12	H	17 1/8 x 11 3/4

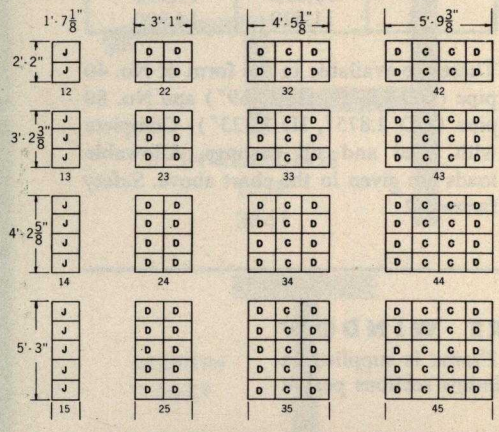
A	15 7/8 x 22 3/4	J	15 3/4 x 36 1/2
B	15 7/8 x 35 1/8	K	15 3/4 x 48 3/4
C	15 7/8 x 47 3/8	L	32 x 24 1/8
D	17 5/16 x 24 1/8	M	32 x 36 1/2
E	17 5/16 x 36 1/2	N	32 x 48 3/4
F	17 5/16 x 48 3/4	O	15 11/16 x 11 7/8
G	15 3/4 x 24 1/8	P	32 x 11 7/8
H	17 1/8 x 11 3/4	R	17 5/16 x 12

WITHOUT MUNTINS



STANDARD SIZE FIXED AND PICTURE WINDOWS

FIXED WINDOWS

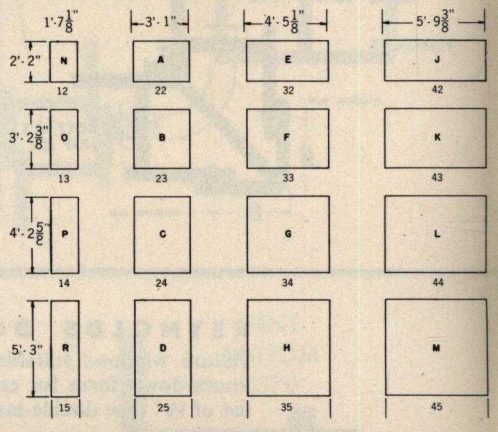


RECOMMENDED GLASS SIZES

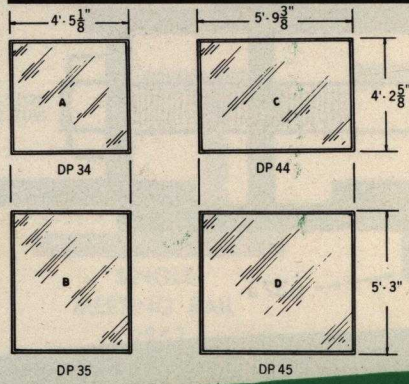
C 15 11/16 x 12 D 17 5/16 x 12 J 17 1/8 x 12

A	35 x 24	J	67 3/8 x 24
B	35 x 36 3/8	K	67 3/8 x 36 3/8
C	35 x 48 5/8	L	67 3/8 x 48 5/8
D	35 x 61	M	67 3/8 x 61
E	15 1/8 x 24	N	17 1/8 x 24
F	51 1/8 x 36 3/8	O	17 1/8 x 36 3/8
G	51 1/8 x 48 5/8	P	17 1/8 x 48 5/8
H	51 1/8 x 61	R	17 1/8 x 61

PICTURE WINDOWS



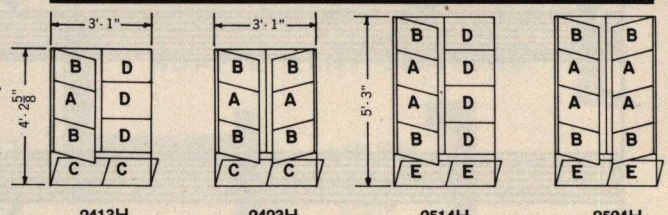
STANDARD DOUBLE INSULATING



STANDARD SIZE THERMOPANE OR TWINDOW 1" DOUBLE GLAZING

A	50 3/8 x 47 7/8
B	50 3/8 x 60 1/4
C	66 5/8 x 47 7/8
D	66 5/8 x 60 1/4

HOPPER VENT STANDARD SIZE



A 15 13/16 x 12 B 15 13/16 x 11 1/4 C 15 15/16 x 10 1/16 D 17 5/16 x 12 E 15 10 3/16

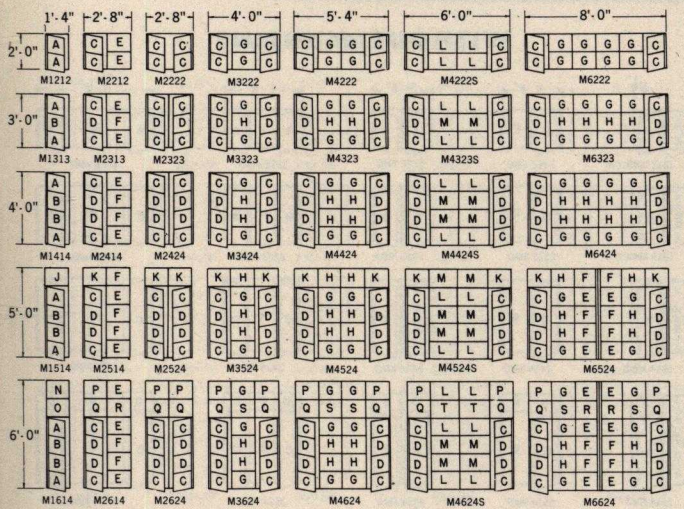
The above sizes are available without muntins.
Other sizes are available upon special order.

CASEMENT
C-A1 AWMA QUALITY APPROVED

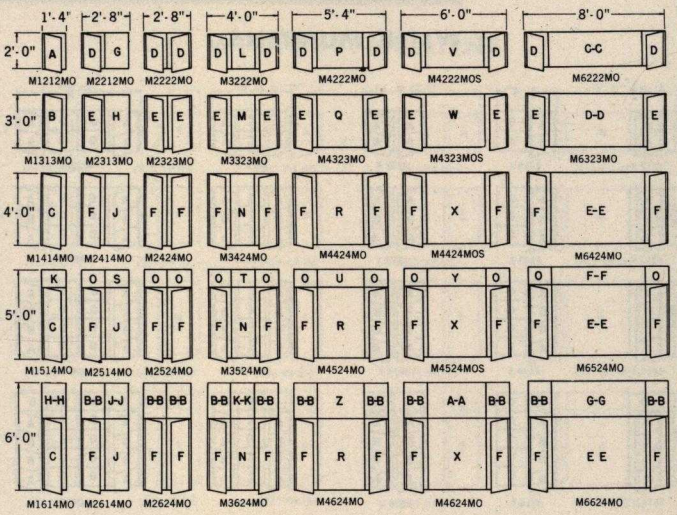
SIZES and TYPES

MODULAR SIZE CASEMENT WINDOWS

WITH MUNTINS



WITHOUT MUNTINS



GLASS SIZES WITH MUNTINS

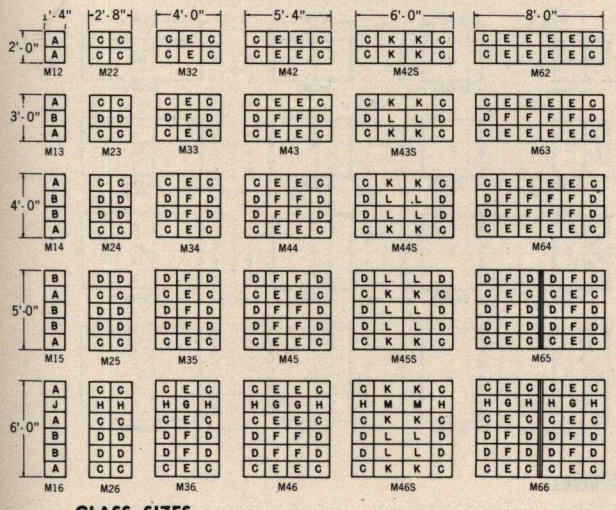
A 12¾ x 10⁵⁄₁₆	D 13¼ x 11¹¹⁄₁₆	G 15⁹⁄₁₆ x 11	K 14⅝ x 11⁹⁄₁₆	N 14⅛ x 11	Q 14⅝ x 12¼	S 15⁹⁄₁₆ x 12⅜
B 12¾ x 11¹¹⁄₁₆	E 14¹³⁄₁₆ x 11	H 15⁹⁄₁₆ x 11¹¹⁄₁₆	L 19⁹⁄₁₆ x 11	O 14⅛ x 12¼	R 14¹³⁄₁₆ x 12⅜	T 19⁹⁄₁₆ x 12⅜
C 13¼ x 10⁵⁄₁₆	F 11¹³⁄₁₆ x 11¹¹⁄₁₆	J 14⅛ x 11⁹⁄₁₆	M 19⁹⁄₁₆ x 11¹¹⁄₁₆	P 14⅝ x 11		

GLASS SIZES WITHOUT MUNTINS

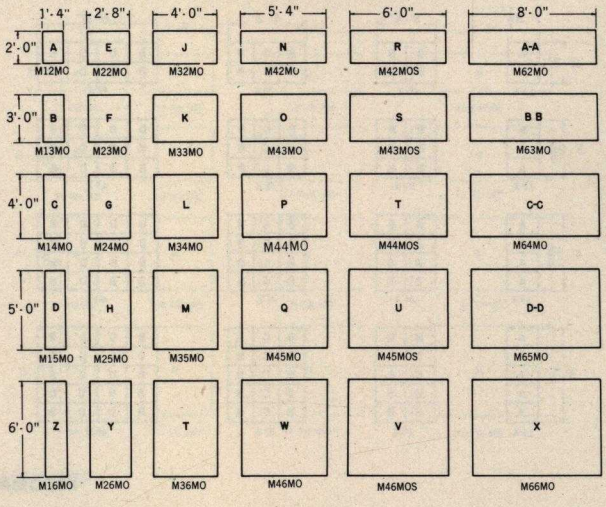
A 12¾ x 20¾	F 13¼ x 44¾	L 15⁹⁄₁₆ x 22⅛	Q 31⁹⁄₁₆ x 34⅛	V 39⁹⁄₁₆ x 22⅛	A-A 39⁹⁄₁₆ x 23¹¹⁄₁₆	F-F 63⁹⁄₁₆ x 11¹¹⁄₁₆
B 12¾ x 32¾	G 14¹³⁄₁₆ x 22⅛	M 15⁹⁄₁₆ x 34⅛	R 31⁹⁄₁₆ x 46⅛	W 39⁹⁄₁₆ x 34⅛	B-B 14⅝ x 23⁹⁄₁₆	G-G 63⁹⁄₁₆ x 23¹¹⁄₁₆
C 12¾ x 44¾	H 14¹³⁄₁₆ x 34⅛	N 15⁹⁄₁₆ x 46⅛	S 14¹³⁄₁₆ x 11¹¹⁄₁₆	X 39⁹⁄₁₆ x 46⅛	C-C 63⁹⁄₁₆ x 22⅛	H-H 14⅛ x 23⁹⁄₁₆
D 13¼ x 20¾	J 14¹³⁄₁₆ x 46⅛	O 14⅝ x 11⁹⁄₁₆	T 15⁹⁄₁₆ x 11¹¹⁄₁₆	Y 39⁹⁄₁₆ x 11¹¹⁄₁₆	D-D 63⁹⁄₁₆ x 34⅛	J-J 14¹³⁄₁₆ x 23¹¹⁄₁₆
E 13¼ x 32¾	K 14⅛ x 11⁹⁄₁₆	P 31⁹⁄₁₆ x 22⅛	U 31⁹⁄₁₆ x 11¹¹⁄₁₆	Z 31⁹⁄₁₆ x 23¹¹⁄₁₆	E-E 63⁹⁄₁₆ x 46⅛	K-K 15⁹⁄₁₆ x 23¹¹⁄₁₆

MODULAR SIZE FIXED AND PICTURE WINDOWS

FIXED WINDOWS



PICTURE WINDOWS


1'-4" 2'-8" 4'-0" 5'-4" 6'-0" 8'-0"
2'-0" M12MO M22MO M32MO M42MO M42MOS M62MO
3'-0" M13MO M23MO M33MO M43MO M43MOS M63MO
4'-0" M14MO M24MO M34MO M44MO M44MOS M64MO
5'-0" M15MO M25MO M35MO M45MO M45MOS M65MO
6'-0" M16MO M26MO M36MO M46MO M46MOS M66MO

GLASS SIZES, FIXED WINDOWS

A 14⅛ x 11	C 14¹³⁄₁₆ x 11	E 15⁹⁄₁₆ x 11	G 15⁹⁄₁₆ x 12⅜	J 14⅛ x 12⅜	L 19⁹⁄₁₆ x 11¹¹⁄₁₆
B 14⅛ x 11¹¹⁄₁₆	D 14¹³⁄₁₆ x 11¹¹⁄₁₆	F 15⁹⁄₁₆ x 11¹¹⁄₁₆	H 14¹³⁄₁₆ x 12⅜	K 19⁹⁄₁₆ x 11	M 19⁹⁄₁₆ x 12⅜

GLASS SIZES, PICTURE WINDOWS

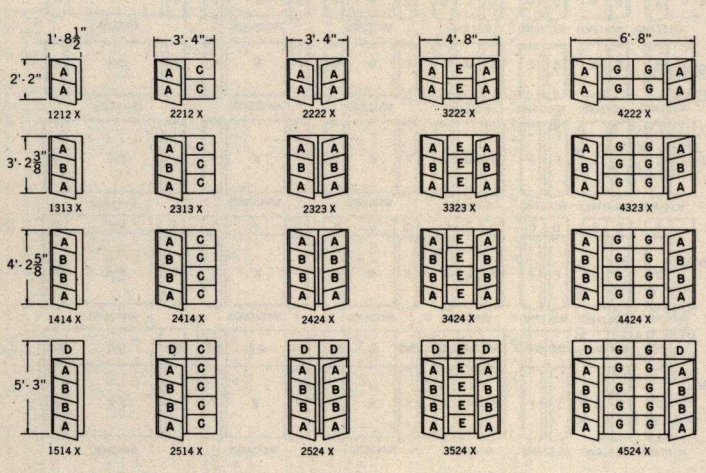
A 14 x 22	F 30 x 34	L 46 x 46	Q 62 x 58	V 70 x 70	A-A 94 x 22
B 14 x34	G 30 x 46	M 46 x 58	R 70 x 22	W 62 x 70	B-B 94 x 34
C 14 x 46	H 30 x 58	N 62 x 22	S 70 x 34	X 94 x 70	C-C 94 x 46
D 14 x 58	J 46 x 22	O 62 x 34	T 70 x 46	Y 30 x 70	D-D 94 x 58
E 30 x 22	K 46 x 34	P 62 x 46	U 70 x 58	Z 14 x 70	

REYNOLDS ALUMINUM WINDOWS

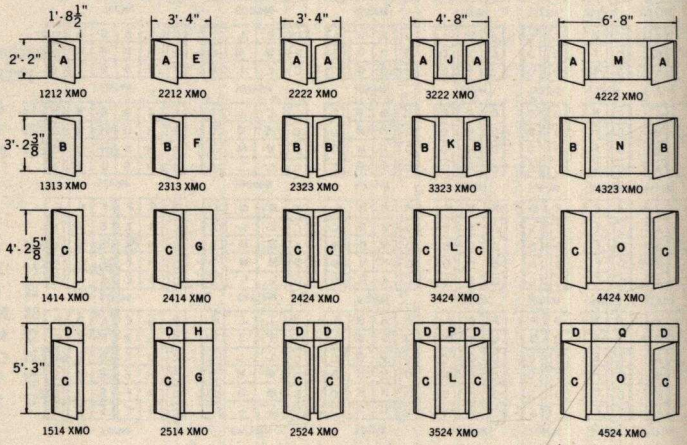
"X" and "XW" windows normally used on the west coast

"X" CASEMENT WINDOWS

WITH MUNTINS



WITHOUT MUNTINS

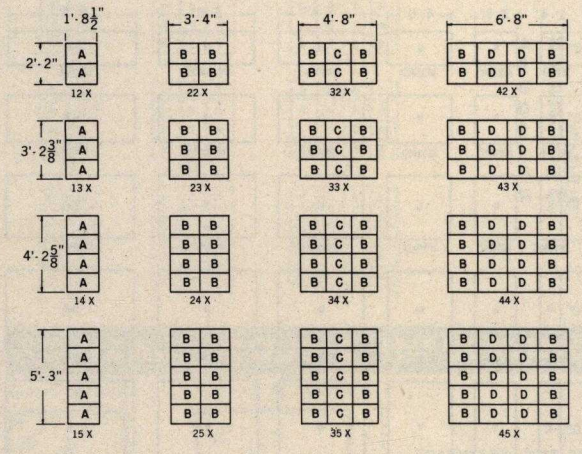


RECOMMENDED GLASS SIZES

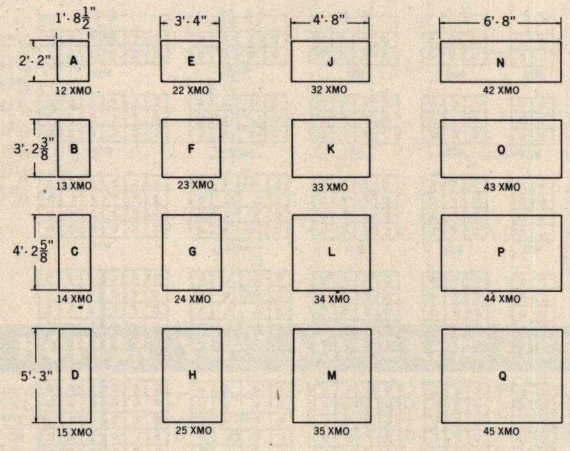
A	17¼ x 11¼	**D**	18⅝ x 11¾	**A**	17¼ x 22¾	**F**	18 3/16 x 36½	**L**	15 9/16 x 48¾
B	17¼ x 12	**E**	15 9/16 x 12	**B**	17¼ x 35⅛	**G**	18 3/16 x 48¾	**M**	39 9/16 x 24⅛
C	18 3/16 x 12	**G**	19 9/16 x 12	**C**	17¼ x 47⅜	**H**	18 3/16 x 12	**N**	39 9/16 x 36½
				D	18⅝ x 11¾	**J**	15 9/16 x 24⅛	**O**	39 9/16 x [illegible]
				E	18 3/16 x 24⅛	**K**	15 9/16 x 36½	**P**	15 9/16 x [illegible]
								Q	39 9/16 x 12

"X" FIXED AND PICTURE WINDOWS

FIXED WINDOWS



PICTURE WINDOWS



RECOMMENDED GLASS SIZES

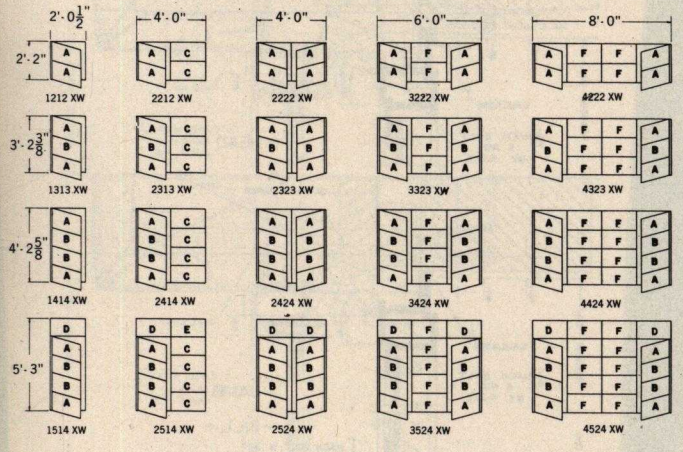
A	18⅝ x 12	**A**	18½ x 24	**F**	38 x 36⅜	**L**	54 x 48⅝
B	18 3/16 x 12	**B**	18½ x 36⅜	**G**	38 x 48⅝	**M**	54 x 61
C	15 9/16 x 12	**C**	18½ x 48⅝	**H**	38 x 61	**N**	78 x 24
D	19 9/16 x 12	**D**	18½ x 61	**J**	54 x 24	**O**	78 x 36⅜
		E	38 x 24	**K**	54 x 36⅜	**P**	78 x [illegible]
						Q	78 x [illegible]

CASEMENT
C-AI AWMA QUALITY APPROVED

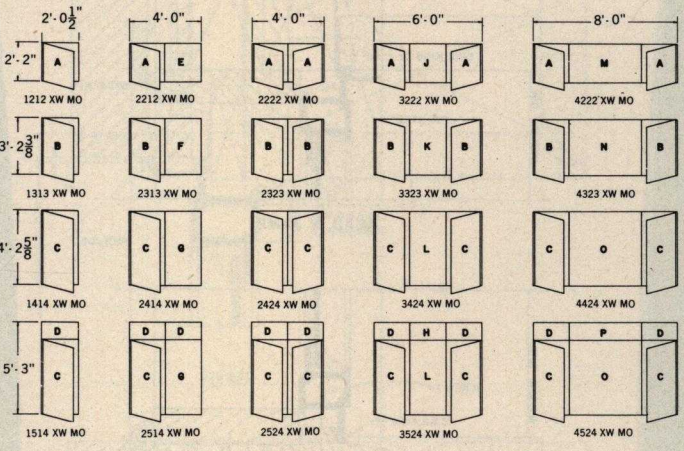
SIZES and TYPES

"XW" CASEMENT WINDOWS (with Tubular Vent Section)

WITH MUNTINS



WITHOUT MUNTINS

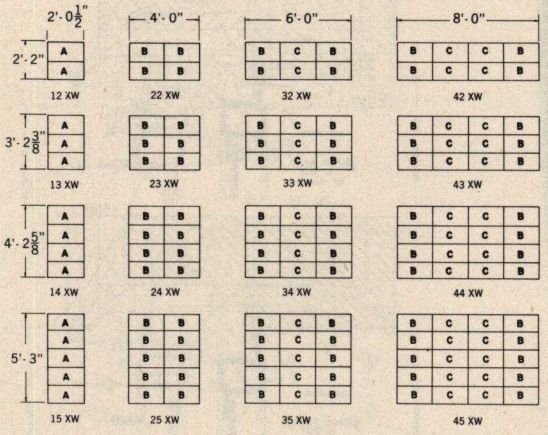


RECOMMENDED GLASS SIZES

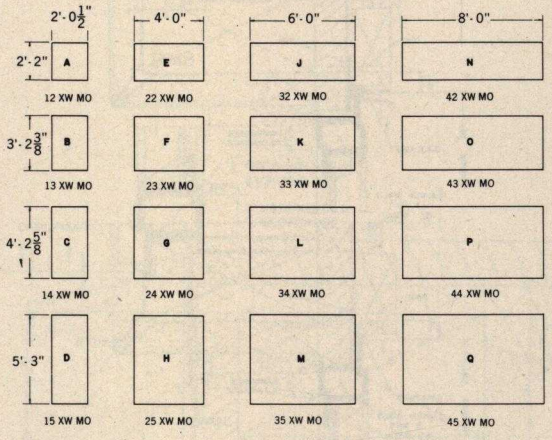
A	20¾ x 11 1/16	**D**	22⅝ x 11¾	**A**	20¾ x 22⅜	**F**	22 13/16 x 36½	**L**	23 9/16 x 48¾
B	20¾ x 12 1/16	**E**	22 13/16 x 11¾	**B**	20¾ x 34¾	**G**	22 13/16 x 48¾	**M**	47 9/16 x 24 1/8
C	22 13/16 x 12	**F**	23 9/16 x 12	**C**	20¾ x 47	**H**	23 9/16 x 12	**N**	47 9/16 x 36½
				D	22⅝ x 11¾	**J**	23 9/16 x 24 1/8	**O**	47 9/16 x 48¾
				E	22 13/16 x 24 1/8	**K**	23 9/16 x 36½	**P**	47 9/16 x 12

"XW" FIXED AND PICTURE WINDOWS

FIXED WINDOWS



PICTURE WINDOWS



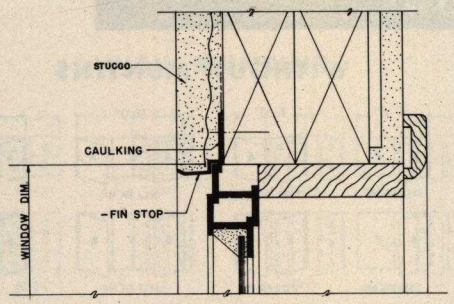
RECOMMENDED GLASS SIZES

A	22⅝ x 12	**A**	22½ x 24	**F**	46 x 36⅜	**M**	70 x 61
B	22 13/16 x 12	**B**	22½ x 36⅜	**G**	46 x 48⅝	**N**	94 x 24
C	23½ x 12	**C**	22½ x 48⅝	**H**	46 x 61	**O**	94 x 36⅜
		D	22½ x 61	**J**	70 x 24	**P**	94 x 48⅝
		E	46 x 24	**K**	70 x 36⅜	**Q**	94 x 61
				L	70 x 48⅝		

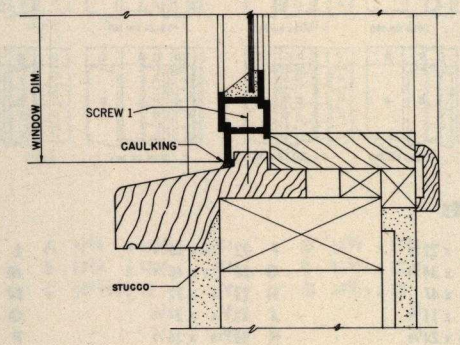
REYNOLDS ALUMINUM WINDOWS

Full scale details available upon request

STUCCO WITH FIN STOP

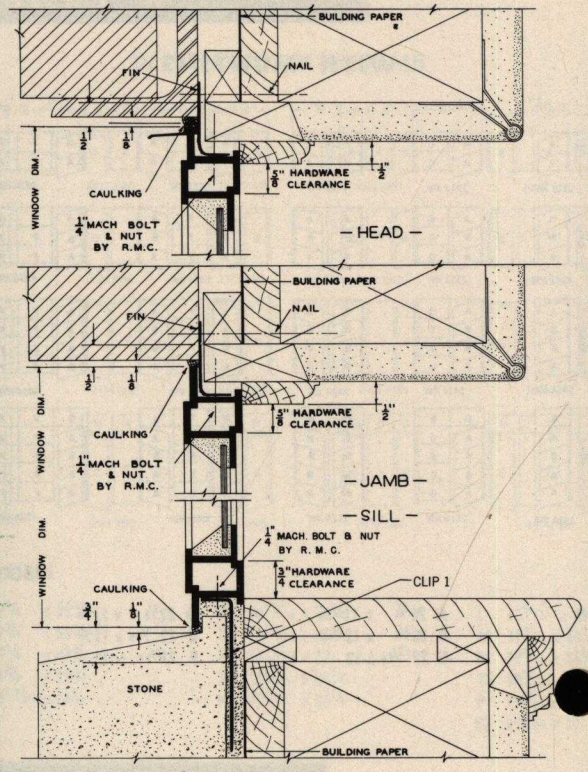


HEAD & JAMB

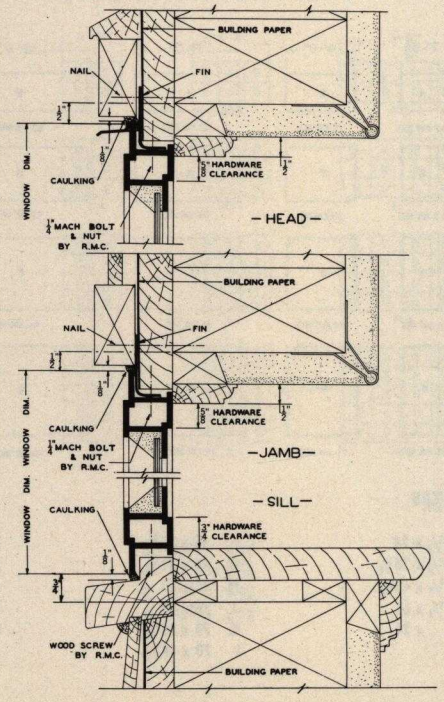


SILL

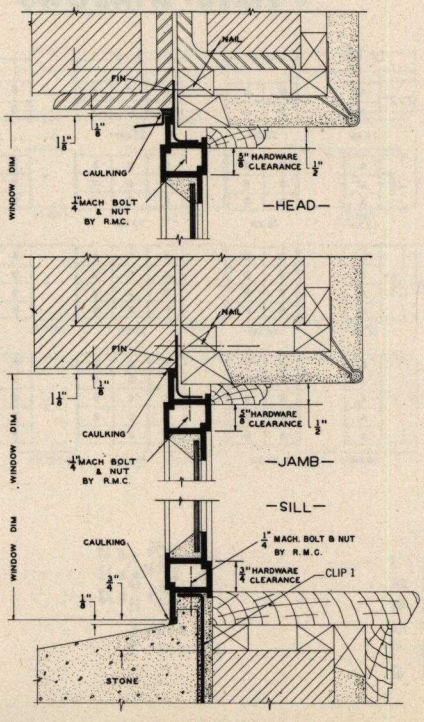
BRICK VENEER WITH FIN



FRAME WITH FIN



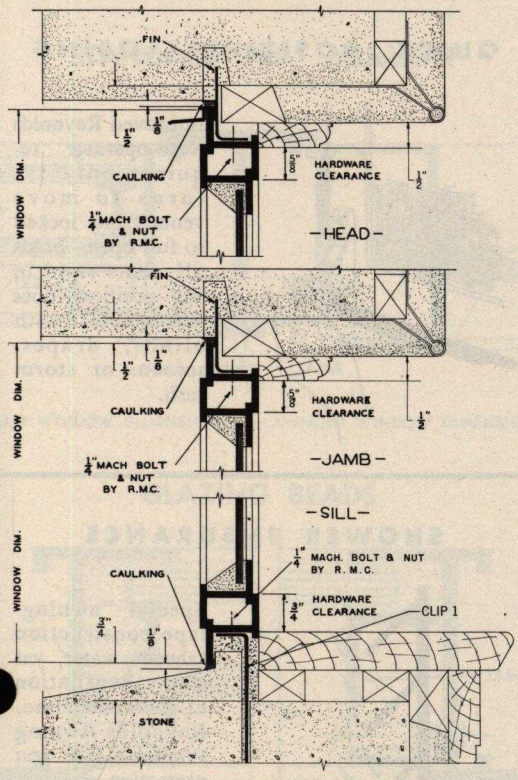
SOLID BRICK WITH FIN



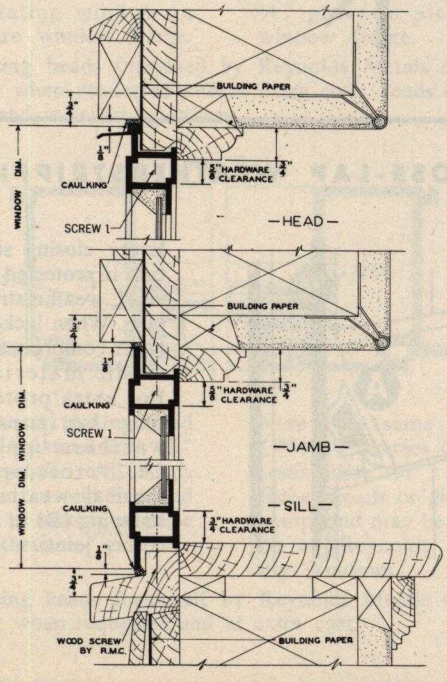
CASEMENT
FIXED and PICTURE

INSTALLATION

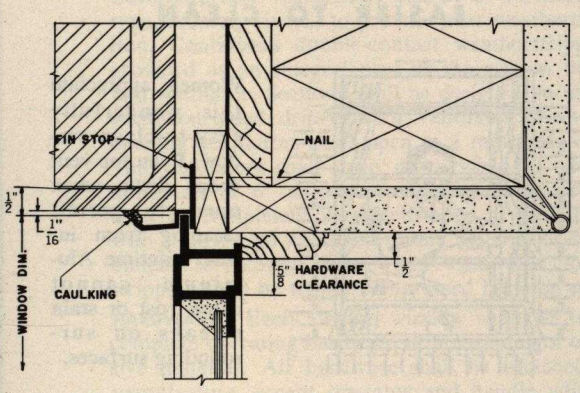
CONCRETE OR CONCRETE BLOCK, FIN



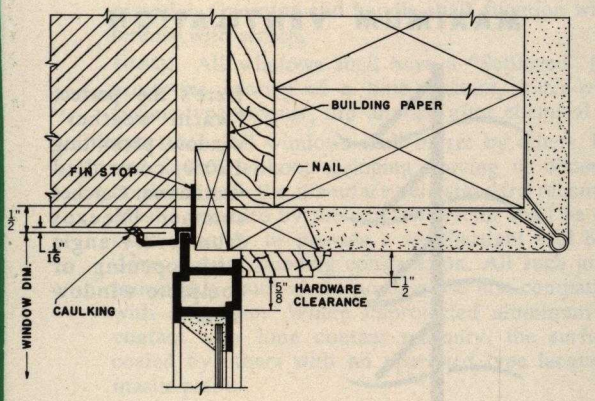
FRAME WITH WOOD STRIP



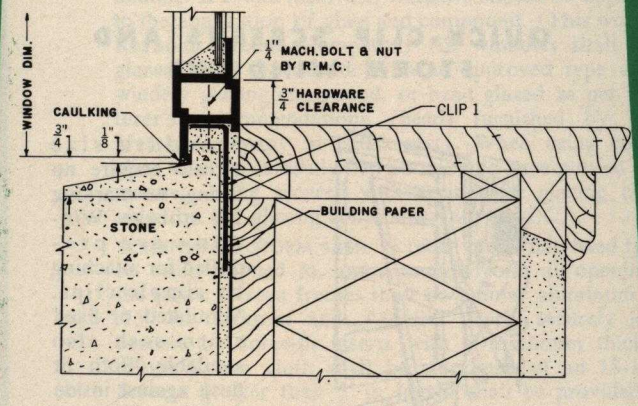
BRICK VENEER, FIN STOP



HEAD



JAMB



SILL

Sufficient wood screws (screw #1) and sill anchor clips (clip #1) will be furnished by Reynolds Metals Company when needed and requested.

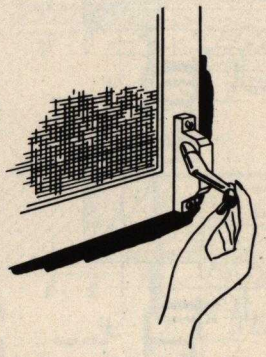
REYNOLDS ALUMINUM WINDOWS

UNMATCHED BEAUTY, CONVENIENCE AND PERFORMANCE

EASIER TO CLEAN

Women appreciate this wonderfully easy-to-clean window. Even top vent drops down when open to permit cleaning from inside. Lifetime Aluminum cannot cause rust or stain streaks on surrounding surfaces.

QUICK, POSITIVE CLOSING



Improved Reynolds Roto-operator requires only 5½ turns to move vents from locked to full open—holds all vents rigid in any position—does not interfere with blinds, drapes, screens or storm sash.

MAXIMUM VENTILATION

Here's the perfect "warm weather" window, permitting 100% controlled ventilation. Catches summer breezes from every angle with opening of complete window area.

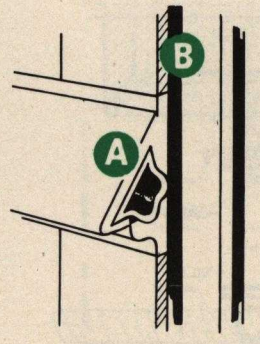
SHOWER INSURANCE

Special "awning-type construction "sheds" water, yet allows ventilation at the same time. Reynolds Awning Windows give you protection against quick summer showers—even with the windows open!

QUICK-CLIP SCREENS AND STORM WINDOWS

Standard size screens require no fitting, no marking for storage. Windows are predrilled for attaching by simple clips. Ventilated or fixed storm sash also available. Both fit flush against inside frame.

CROSS-LAP WEATHERSTRIPPING

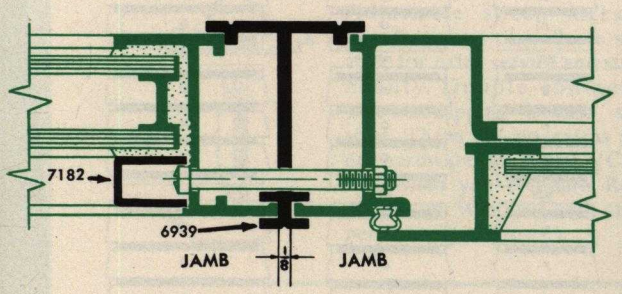


Every closing surface is protected by vinyl weatherstripping. When locked, vents compress this elastic material. For extra protection horizontal weatherstripping (A) "cross-laps" vertical weatherstripping (B) at all corner joints.

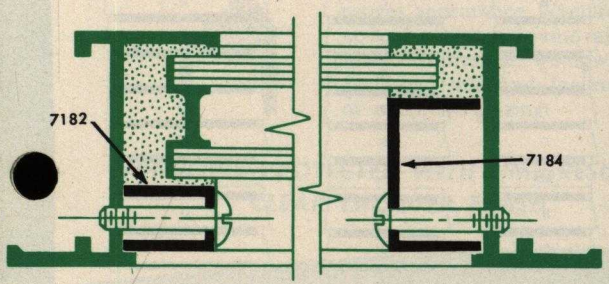
THE MAINTENANCE-FREE WINDOW THAT LETS YOU DECIDE

AWNING

STANDARD 180° MULLION



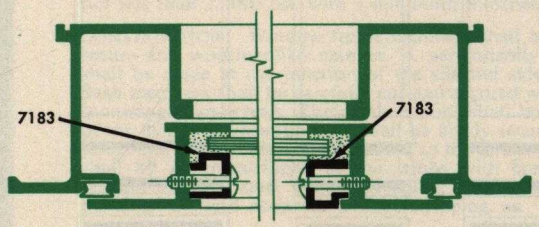
GLAZING BEADS



Glazing bead #7182 for use with 1″ double-insulating window in picture window frame.

Glazing bead #7184 for use with either ⅛″ or ¼″ glass in picture window frame.

Glazing beads furnished by Reynolds Metals Company when requested and at extra cost. Beads to be cut and installed by others.



Universal glazing bead #7183 as used with ⅛″ vent section. All beads to be cut and installed glass in awning window by others.

Note how same bead (#7183) reverses to accommodate ¼″ glass. Either beads or glazing compound may be used on all Reynolds Awning Windows.

Glazing beads furnished by Reynolds Metals Company when requested and at extra cost.

SPECIFICATIONS

GENERAL Windows shall be Residential Aluminum Awning type as manufactured by the Reynolds Metals Company and shall conform to the Aluminum Window Manufacturers Association specification A-A1 (or with design and/or engineering changes which provide the user with equal or superior operation, appearance and service). Sizes and types shall be as shown on the general plans.

MATERIAL Sections shall be especially designed aluminum extruded shapes of 63S-T5 alloy having an ultimate tensile strength of not less than 22,000 psi, with a minimum thickness of .062″. Frame sections shall be not less than 1⅞″ in depth and ventilator sections shall be not less than 1¼″ in depth.

CONSTRUCTION All corners shall be of the mortise and tenon type, securely riveted to provide neat weathertight construction. Continuous double-contact weatherstripping shall be provided as an integral part of the section between frame and ventilator. Sections shall be designed so as to provide a weatherstripped drip cap for ventilator below. All outside opening ventilators shall open to a minimum of 70 degrees. Top ventilators shall drop down when in open position a minimum of 6″ to permit cleaning from inside. Windows shall be completely weatherstripped at all outside contacts with a vinyl-type weatherstripping material or equal, securely bonded to recessed slots. When window is closed, weatherstripping shall be tightly compressed between sections.

HARDWARE Each awning window shall be furnished with complete operating hardware or aluminum, or of a non-corrosive material. All hardware shall be attached at point of manufacture, except operator and handle which are easily assembled after window installation. Operator shall be of the die cast rotary type, furnished complete with necessary attaching screws and nuts of aluminum or of a non-corrosive material. Operator and handle shall function without interference with screen.

FINISH All windows shall have a "Satinized" finish, and a protective coating of a lime-resistant, water-white, methacrylate-type lacquer, dip applied after chemical cleaning.

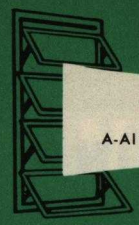
ERECTION All windows shall be set by others, level, plumb and square without springing, forcing or distortion, in accordance with the manufacturers standard recommendations. Mastic provided by the window erector shall be used in sufficient quantity to provide a weathertight seal between windows and surrounding construction. All such joints must be thoroughly caulked. In no case use non-compatible material with aluminum. Where unprotected aluminum comes into contact with lime content masonry, the surface shall be coated by others with an approved type lacquer or a bitumastic paint.

GLAZING All windows are factory adjusted; but prior to glazing, windows shall be inspected to insure that ventilators correctly seat and weather as per manufacturer's recommendations. If found incorrect, windows should be adjusted prior to the application of glass and compound. (This work not by Reynolds Metals Company.) All windows shall be putty glazed from the outside with an approved type aluminum window glazing compound, or bead glazed as per manufacturer's recommendations (beads furnished by Reynolds Metals Company at extra cost). When using compound, glass shall be carefully bed-puttied and face-puttied in a neat manner, being secured with spring-type glazing clips provided by the glazing contractor (not R.M.C.).

SCREENS AND STORM SASH Screens of the flat, fixed type shall be easily applied to, and removed from, all openings from the inside. Screen frames shall be tubular aluminum sections .75″ in thickness and .438″ in depth, securely joined at corners by force-fit inserts with a minimum thickness of .091″. Screen cloth shall be aluminum of an 18-14 mesh. Screens greater than 5′ in height shall be provided with a cross supporting aluminum member. Screens shall be furnished by the manufacturer (at extra cost).

Storm sash panels of a flat, fixed type shall be easily applied to, and removed from, the inside and shall cover entire window area. Glass shall be bedded in a neoprene or vinyl-type extrusion which shall extend around the storm sash frame and provide a complete coverage between storm sash and window frame. Storm sash frame shall be aluminum with a minimum thickness of .062″. Storm sash shall be furnished by the manufacturer and shall be provided with ventilators when specified (at extra cost).

REYNOLDS ALUMINUM WINDOWS



AWNING
A-AI AWMA QUALITY APPROVED

- Fixed (Picture window) units can be made up to any desired size
- Standard widths and heights available from stock
- All window dimensions shown are to oustide of window flanges

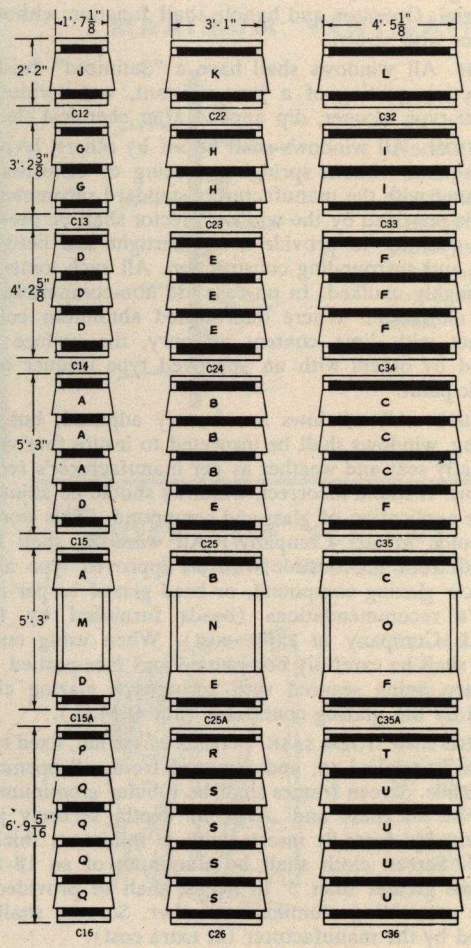
STANDARD AND ARCHITECTURAL SIZES

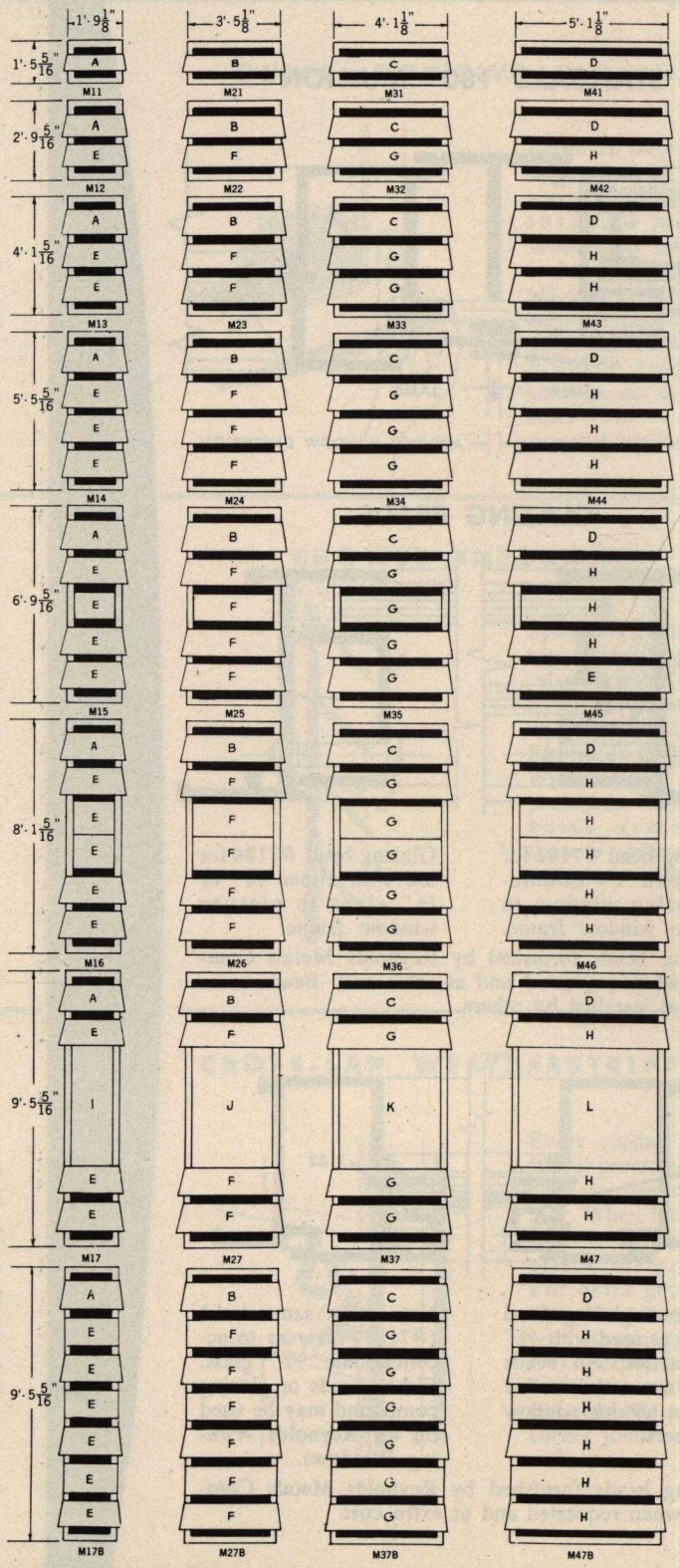
ARCHITECTURAL GLASS SIZES

A	16¾ x 11⁷⁄₁₆	E	16¾ x 14⁷⁄₁₆	I	16¾ x 46⁷⁄₁₆
B	36¾ x 11⁷⁄₁₆	F	36¾ x 14⁷⁄₁₆	J	36¾ x 46⁷⁄₁₆
C	44¾ x 11⁷⁄₁₆	G	44¾ x 14⁷⁄₁₆	K	44¾ x 46⁷⁄₁₆
D	56¾ x 11⁷⁄₁₆	H	56¾ x 14⁷⁄₁₆	L	56¾ x 46⁷⁄₁₆

STANDARD GLASS SIZES

A	14¾ x 12⅞	H	32⅝ x 15½	O	48¾ x 27⁵⁄₁₆
B	32⅝ x 12⅞	I	48¾ x 15½	P	14¾ x 11⁷⁄₁₆
C	48¾ x 12⅞	J	14¾ x 20⅛	Q	14¾ x 14⁷⁄₁₆
D	14¾ x 13⅞	K	32⅝ x 20⅛	R	32⅝ x 11⁷⁄₁₆
E	32⅝ x 13⅞	L	48¾ x 20⅛	S	32⅝ x 14⁷⁄₁₆
F	48¾ x 13⅞	M	14¾ x 27⁵⁄₁₆	T	48¾ x 11⁷⁄₁₆
G	14¾ x 15½	N	32⅝ x 27⁵⁄₁₆	U	48¾ x 14⁷⁄₁₆



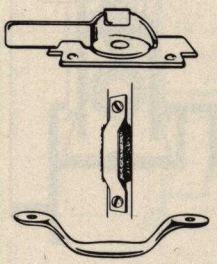


REYNOLDS ALUMINUM WINDOWS

DOUBLE-HUNG

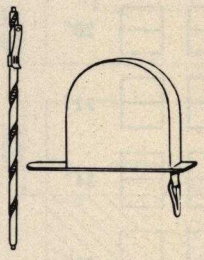
PREMIUM FEATURES IN AN ECONOMICAL LINE

STAINLESS STEEL HARDWARE



Adjustable sweep locks, dust guards, screws . . . all are stainless steel for extra service and stain-free beauty. Double-contact jamb weatherstripping is also stainless steel. There are no extras to buy, no hardware to install. (Consider this when you compare Reynolds Aluminum Windows with other less permanent windows.)

PRECISION BALANCES



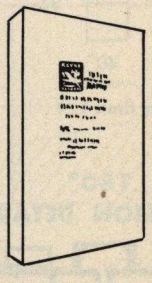
Spiral balances concealed in sash provide real fingertip control . . . assure smooth, quiet operation year-after-year. Tape balances are optional and can be furnished at additional cost when specified.

NEOPRENE GLAZING

Factory glazing with reusable neoprene extrusion cushions glass, improves appearance. When reglazing, cost of compound removal is eliminated. If desired, windows can be furnished unglazed for compound or neoprene glazing.

WINDOWS PROTECTED WITH LIME-RESISTANT CLEAR LACQUER FINISH

A COMPLETE PACKAGE



Windows are shipped two to a heavy carton, fully glazed or open and complete with full length or half screens, already installed weatherstripping, hardware, anchors and all fittings. Storm windows are attached to outside of window frame with clips. They are made in two sections for easy replacement of lower half with a half-window screen.

SPECIFICATIONS

GENERAL Windows shall be Residential Aluminum Double-Hung type as furnished by the Reynolds Metals Company and shall conform to the Aluminum Window Manufacturers Association Specification DH-A1 (or with design and/or engineering changes which will provide the user with equal or superior operation, appearance and service). Sizes and types shall be as shown on the general plans.

MATERIAL Sections shall be especially designed aluminum extruded shapes of 63S-T5 alloy having an ultimate tensile strength of not less than 22,000 psi, with a minimum thickness of .062″.

CONSTRUCTION Window frame members shall be assembled in a secure and workmanlike manner. A permanently watertight joint shall be made at the junction of the sill and side frame member. Sash members shall be carefully cut and secured with stainless steel (non-magnetic) screws. Threaded sections shall be an integral part of the extrusion. Muntin bars shall be firmly secured at their cross joints and at the ends where attached to the abutting sash. Windows shall be weatherstripped at the jambs with continuous double-contact stainless steel weatherstripping, and at the head, sill and meeting rail with neoprene weatherstripping.

HARDWARE Windows shall be equipped with easily accessible tape balances or adjustable spiral balances. Windows shall have continuous lift on lower sash, with one pull-down handle on under side of upper sash for sash up to and including 3′4″ in width (2 handles on sash over 3′4″ in width). Windows shall have stainless steel locks and dust guards.

FINISH All windows shall have a protective coating of a lime-resistant, water-white, methacrylate-type lacquer spray applied after cleaning.

ERECTION All windows shall be set by others level, plumb and square without springing, forcing or distortion, in accordance with the manufacturer's standard recommendations. Mastic provided by the window erector shall be used in sufficient quantity to provide a weathertight seal between windows and surrounding construction. All such joints must be thoroughly caulked. In no case use non-compatible material with aluminum. Where unprotected aluminum comes into contact with lime content masonry, the surfaces shall be coated by others with an approved type lacquer or a bitumastic paint.

GLAZING Sash will be furnished factory glazed with either single or double strength glass set in neoprene glazing extrusions or unglazed in accordance with customer's glazing specifications. All windows are factory adjusted; but prior to field glazing, windows shall be inspected to insure that ventilators correctly seat and weather as per manufacturer's recommendations. If found incorrect, window should be adjusted prior to the application of glass and compound. (This work not by Reynolds Metals Company.) All windows shall then be putty glazed from the outside with an approved type aluminum window glazing compound. When using compound, glass shall be carefully bed-puttied and face-puttied in a neat manner, being secured with spring-type clips provided by the glazing contractor (not by R. M. C.).

SCREENS AND STORM SASH Single piece screens of a flat, fixed type shall be applied to all openings from the outside. Screen frames shall be tubular aluminum sections securely joined at corners by force-fit inserts. Screen cloth shall be aluminum of an 18-14 mesh. Two-piece screens of a flat, fixed type shall also be available and shall be easily applied to, and removed from, all openings from the outside. Screens of both types can be installed from the interior and shall be furnished by the manufacturer (at extra cost).

Two-piece storm sash shall be easily applied to, and removed from, the outside and shall cover entire window area. Storm sash frame shall be of aluminum. Storm sash shall be furnished by the manufacturer (at extra cost).

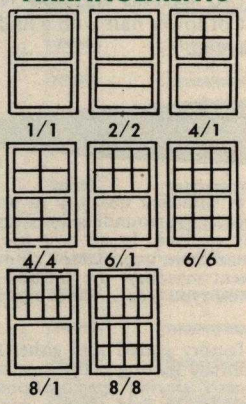
REYNOLDS ALUMINUM WINDOWS

MODULAR SIZES

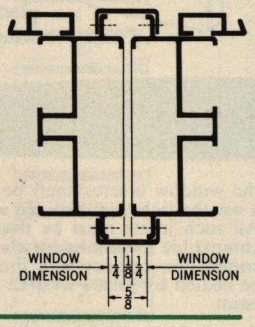
HEIGHT \ WIDTH	1'8"	2'0"	2'4"	2'8"	3'0"	3'4"	3'8"	GLASS HEIGHT
3'1"								16"
3'9"								20"
4'1"								22"
4'5"								24"
5'1"								28"
5'9"								32"
Glass Width	16"	20"	24"	28"	32"	36"	40"	

For glass sizes of muntin arrangements other than 1/1 deduct ⅜" for each muntin bar.

MUNTIN ARRANGEMENTS



180° MULLION DETAIL



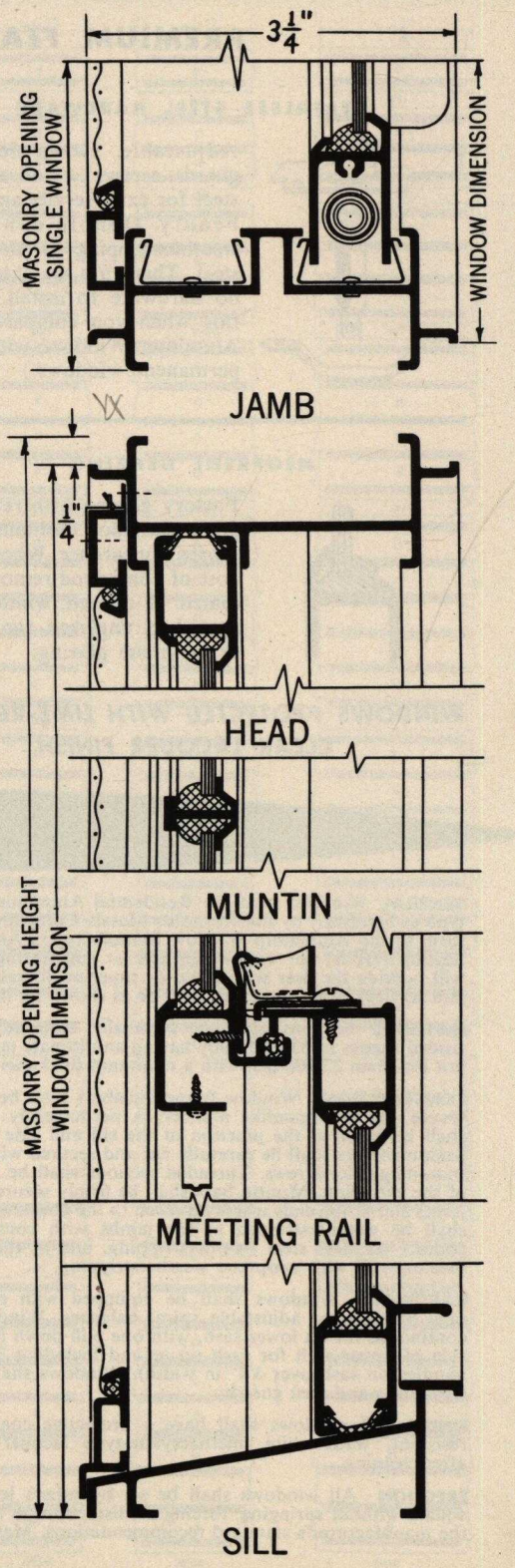
STYLE NUMBERS Style numbers are made up of the width and height respectively in feet and inches. Example: a window 2'8" wide, 4'5" high and glazed with muntin arrangement 6/6 is designated style #2845—6/6.

ROUGH OPENING For rough opening width of single window add 1¾" to window widths as shown above.; for mullioned windows add additional ⅝" for each 180° non load-bearing mullion or 4½" for each load-bearing mullion.

For rough opening height add ⅞" to the window heights as shown at right for windows with tape balances.

FINISHED OPENING Finished window opening widths of single window are window widths as shown at right plus ½"; for mullioned windows add an additional ⅝" for each 180° non load-bearing mullion, or 4½" for each load-bearing mullion. Finished window opening heights are window heights as shown at right plus ¼". Outside frame dimensions are ½" wider and ¼" higher than window dimensions shown at right.

CROSS SECTIONAL DETAILS



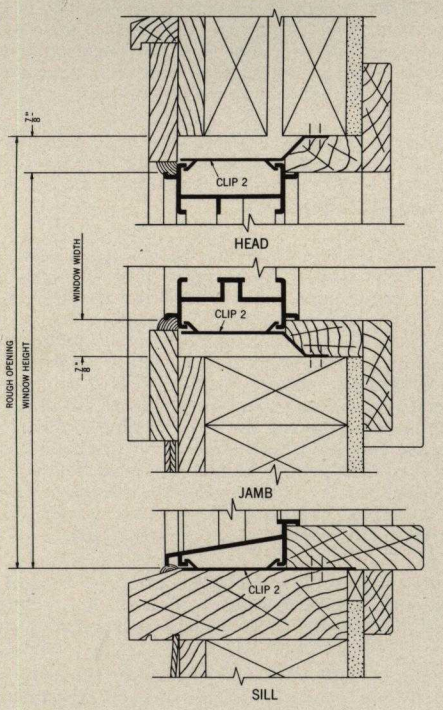
Full scale details available upon request

DOUBLE-HUNG
DH-AI AWMA QUALITY APPROVED

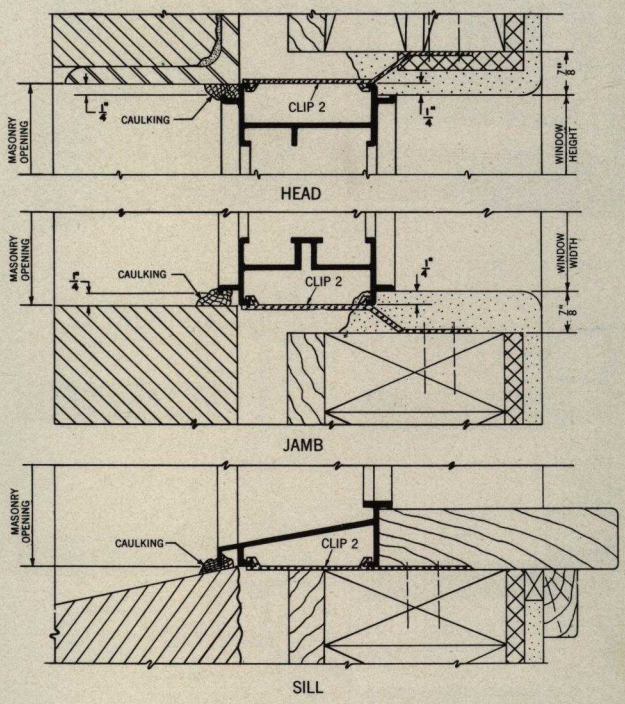
INSTALLATION

Full scale details available upon request

FRAME, WOOD TRIM

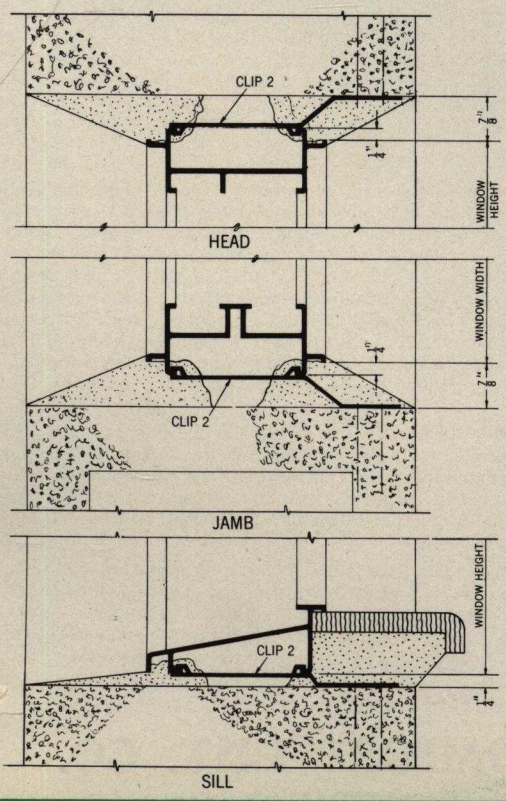


BRICK VENEER

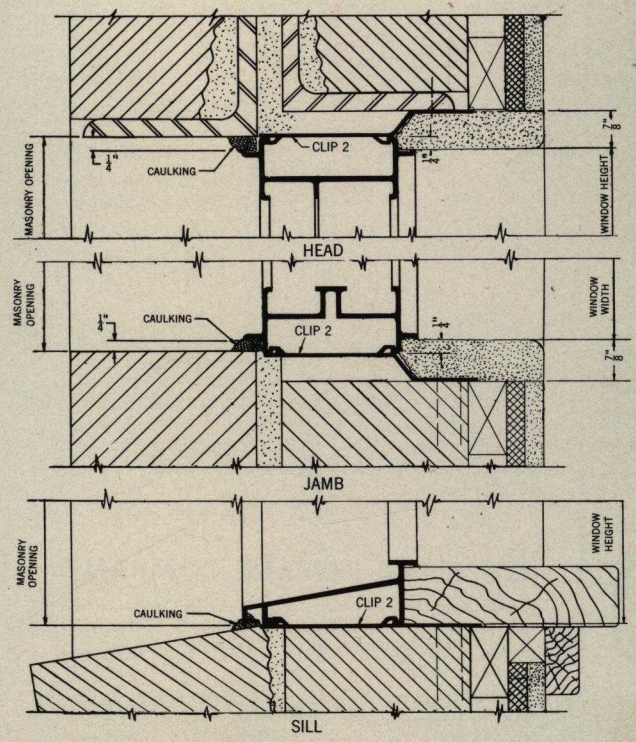


Drawings show installation dimensions for windows with spiral balances. For tape balances on the head, add 3" to window height instead of 7/8".

CONCRETE BLOCK

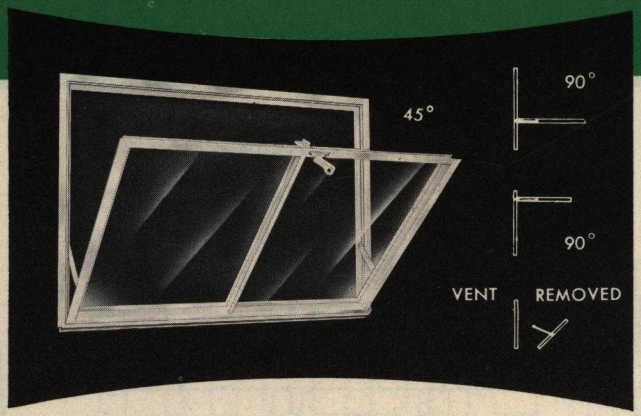


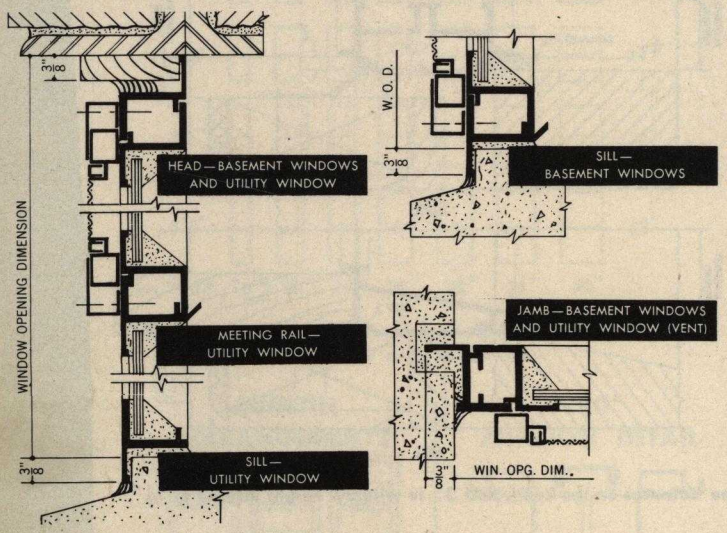
SOLID BRICK



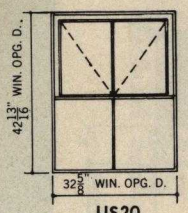
REYNOLDS ALUMINUM WINDOWS

BASEMENT & UTILITY



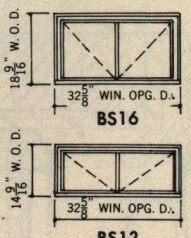


UTILITY WINDOW



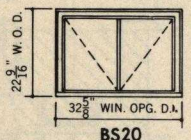
US20

BASEMENT WINDOWS



BS16

BS12



BS20

GLASS SIZES

US20 (vent)—15 x 20
US20 (fixed)—15½ x 20
BS20—15 x 20
BS16—15 x 16
BS12—15 x 12

SPECIFICATIONS

GENERAL Windows shall be Aluminum Basement and/or Utility type as manufactured by the Reynolds Metals Company and designed for use in basements, garages, areaways, etc. (or with design and/or engineering changes which will provide the user with equal or superior operation, appearance and service). Sizes and types shall be as shown on the general plans.

MATERIAL Sections shall be especially designed aluminum extruded shapes of 63S-T5 alloy having an ultimate tensile strength of not less than 22,000 psi, with a minimum thickness of .062″. Frame and ventilator sections shall be Z-Sections 1″ in depth with offset weathering.

CONSTRUCTION All corners shall be of the mortise and tenon type, securely riveted to provide sturdy tight corners. Vent arms shall be securely riveted to ventilator and slide in the frame tracks which shall be an integral part of the frame jamb extrusions. Frame members under the ventilator shall contain two weep holes to allow for water run off. Vent shall open in at the top and pivot on the sill to a 45 degree angle. They shall further open to 90 degrees at any location on the frame from top to bottom. Vents shall also be designed for complete removal, if necessary, for cleaning of glass or to permit use of a clear opening for passage or materials to and from the basement. Sections shall provide continuous double contact between frame and ventilator members. Sections shall be designed so as to provide a flush surface on both the interior and exterior. In no case shall the ventilator overlap the outside or inside face of frame. All window sections shall be provided with serrated edges to insure the adherence of either glazing compound or grouting material.

HARDWARE Each window shall be provided with a cam-type catch of aluminum riveted to the head of the ventilator which will pivot about a riveted pin to securely close and lock the window. Catch shall come attached to window.

FINISH All windows shall have a "Santinized" finish and a protective coating of a lime-resistant, water-white, methacrylate-type lacquer, dip applied after chemical cleaning.

ERECTION All windows shall be set by others level, plumb and square without springing, forcing or distortion, in accordance with the manufacturer's standard recommendations. When possible, windows shall be installed in the closed and locked position to insure proper ventilator alignment. Mastic provided by the window erector shall be used in sufficient quantity to provide a weather-tight seal between windows and surrounding construction. All such joints must be thoroughly caulked. In no case use non-compatible materials with aluminum. Where unprotected aluminum comes into contact with lime-content masonry, the surfaces shall be coated by others with an approved type lacquer or bitumastic paint.

GLAZING All windows are factory adjusted; but prior to glazing, window shall be inspected to insure that ventilators correctly seat and weather as per manufacturer's recommendations. If found incorrect, windows should be adjusted prior to the application of glass and compound. (This work not by Reynolds Metals Company.) All windows shall be putty glazed from the inside with an approved type aluminum window glazing compound, or bead glazed (beads furnished by Reynolds Metals Company at extra cost) on the inside as per manufacturer's recommendations. When using compound, glass shall be carefully bed-puttied and face-puttied in a neat manner, being secured with spring-type clips provided by the glazing contractor (not R. M. C.).

SCREENS AND STORM SASH Screens of the flat, fixed type shall be easily applied to, and removed from, all openings from the outside. Screen frames shall be tubular aluminum sections .75″ in thickness and .438″ in depth, securely joined at corners by force-fit inserts with a minimum thickness of .091″. Screen cloth shall be aluminum of an 18-14 mesh. Screens shall be furnished by the manufacturer (at extra cost).

Storm sash panels of a flat, fixed type shall be easily applied to, and removed from, the outside and shall cover entire window area. Glass shall be bedded in a neoprene or vinyl-type extrusion, which shall extend around the storm sash frame and provide a complete coverage between storm sash and window frame. Storm sash shall be furnished by the manufacturer (at extra cost).

WARREN HAGEMAN
SALES REPRESENTATIVE
TE 3-7073

COMFORT DIST. CO.
CLAYTON 17, MO.
7807 Clayton Rd.

THE MOST COMPLETE LINE OF ALUMINUM BUILDING PRODUCTS

CORRUGATED ROOFING AND SIDING • NAILS
RIBBED EMBOSSED SIDING • WEATHERBOARD SIDING
WINDOWS • 5-V CRIMP ROOFING AND SIDING
GUTTERS AND DOWNSPOUTS • FLASHING
INDUSTRIAL CORRUGATED • REFLECTIVE INSULATION
COMPLETE ROOFING AND SIDING ACCESSORIES

REYNOLDS METALS COMPANY

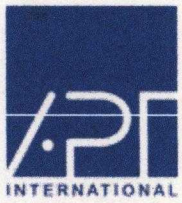
(Contact your nearest Building Products Sales Office listed below or write direct to Building Products Division, 2000 So. Ninth Street, Louisville 1, Kentucky.)

SALES OFFICES

Atlanta, Baltimore, Birmingham, Boston, Charlotte, Chicago, Cincinnati, Cleveland, Columbus, Dallas, Denver, Des Moines, Detroit, Grand Rapids, Houston, Indianapolis, Kansas City, Los Angeles, Louisville, Memphis, Milwaukee, Minneapolis, New Orleans, New York, Phoenix, Pittsburgh, Portland, Richmond, Salt Lake City, San Francisco, Seattle, St. Louis, Tampa.

BP 309-H (6/53) Litho U.S.A.

Digitized by:



ASSOCIATION
FOR
PRESERVATION
TECHNOLOGY,
INTERNATIONAL
www.apti.org

**BUILDING
TECHNOLOGY
HERITAGE
LIBRARY**

https://archive.org/details/buildingtechnologyheritagelibrary

From the collection of:

**NATIONAL
BUILDING
ARTS
CENTER**

http://web.nationalbuildingarts.org